Info-Hams Digest   Wed, 5 Oct 94   Volume 94 : Issue 1096

Today's Topics:
                      Another Classroom net
            Need info about ahmfest in Omaha 10/15/94
            TH79E - Kenwood HT Question and mod list
                     Yaesu FT530 power plug

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Tue, 4 Oct 1994 12:37:29 GMT
From: jwittich@b4pph107.bnr.ca (Jeffrey Wittich)
Subject: Another Classroom net

In article <3OCT199418345854@utkvx.utk.edu>, werner@utkvx.utk.edu (KC4URW) writes:
|> that is on right after Joe (WB2JKJ) gets finished.
|> I start at approx. 8:45 ET on 7.235 +- for QRM.
|> I would welcome any and all checkins.
|> Stop by and say hello to the students in 7th grade.
|> Thanks and gud dx
|> Bob Werner KC4URW
|>
Whats this about? I am interested in more info but did not see the
original post. Thanks.

Jeff.
--
****
jwittich@b4pph107.bnr.ca   *** CW ops let their fingers do the talking.

AC4ZO   *** BNR claims they know nothing of my employment here.
****

Date: Tue, 4 Oct 1994 13:06:47 GMT
From: bodoh@dgg.cr.usgs.gov (Tom Bodoh)
Subject: Need info about ahmfest in Omaha 10/15/94

Hello,

    I would like to get in touch with whomever is organizing the Midwest
Division Convention in Omaha, Nebraska October 14-16. I got their flyer,
but it is not very informative as far as reserving tables or pre-registering.

                        Thanks...

--
+++
+ Tom Bodoh - Section Manager, Systems Engineering and Management, Hughes STX +
+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198   (605) 594-6830   +
+ Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66)   Amateur radio call; N0YGT +
+   "Welcome back my friends to the show that never ends!" EL&P
          +
+++

Date: Tue, 4 Oct 1994 11:28:52 GMT
From: tnfechne@cip.informatik.uni-erlangen.de (Torsten Fechner)
Subject: TH79E - Kenwood HT Question and mod list

Hello out there

just bought an kenwood handheld trx th79e. it is a fine handy,
but i wonder if there is no charger build in.

the dealer said, the accu is automaticly charged and controlled not
to over charge it! the manual says the opposite!

now the question: may i leave the accu in the trx while operating with it?
              cause it damages to it if i put the trx inclusive the
         battery in it on a dc-surply all the time?

please answer
thanks so long

CHANGING THE BANDS:
====================
Press the F-key andthen press the LOW-button to toggle between Air-Band
(340Mhz on the VHF Band) or the Phone-Band (850Mhz on the UHF band) and
the amateur radio band.

CROSBAND-REPEATER:
==================
  The TH-79 does go into X-Band repeat. Press the "F" key then the "MONI"
key to enter repeat mode. Use the same to return to normal. There is a
10 min transmit limit so it's not useable for long duration monitoring of
a continuous transmission. That's understandable in light of the number
of horror stories I've heard of people frying their HT's in repeat mode.

CLONING THE TH79E
=================
To clone the memory contense of two radios on the air. The clone procedure
is same with all others. (use of DTMF tones, do not disturb transmission
etc.) You must take care that both radios are really same: both have
extended range or not, both are E-version or not etc.
It will cause some problems if you try to clone i.e. an E version
without expansion into a A- or J version.
If you have both radios please hold down the -0- key / PAG L Key when
you switch on the radio. So you see the letters CLONE on the display.
Please push the ptt on the radio which has to be the master.
It takes a time to transmit all memory with maybe names, call sign etc.
After Clone is finished you see END written in Display. Best is to switch
of both radios. After switching on again you will have two same radios !

EXTENDED RX/TX
==============
Thats all...Don't cut the green wire, or install any jumpers as before.
This mod is the official one from Kenwood, taken from a data sheet put out by
them.
1. Open the unit by removing three screws from the back and one under the
   DC power input cover. Carefully separate the front and back pieces.
   The two case halves may be disconnected by pulling the wired plug and by
   prying the brown latch on the ribbon cable connector up enough to
   release it.
2. On the front PC board in the lower right corner as viewed from the rear
   with the knobs pointing up there are seven spots for diodes in a row,
   with one diode missing.
                    | o o o o x o o |

```
                          _____|
                          2 3 4 5 6 7 8
    The numbers are D302-D308, left to right, with D306 missing.
3. Remove diodes D304 and D307.
    Now you must have this:
                          | o o x o x x o  |
                          _____|
                          2 3 4 5 6 7 8
5. Reassemble and apply power.  Mod complete.
Now the ranges:
   67-174.995 and 400-511.995 RX
  136-174.995 and 400-511.995 TX.
```

PS: Just cutting the green wire by the recharging jack is the
MARS mod.. Don't cut if you intend to do the above mod..

Discription of the diodes:
==========================
In my HT diode D303 are not installed, green wire cut. RX as wide as
possible (69-179Mhz) and TX from about 130 to 179 MHZ. No crossband repeater.
Now I tried to modify the handy, but i was not carefuly.
I removed D305 and the Bander goes in the Lock-key modus:
  All keys are locked in cases of the Lock-switch.
  QRG disapeared and the channel nummbers shine on the display.
Then I put D307 to the place I removed D305:
  Now I had the TH79A version with no light, but a call channel installed.
  All functions are the same as before, but TX was only possible on the
  amateur radio bands. Automatic shift keying as discriped in the manual
  for the american version. (Not to usefull in Europe :-), but you can
  change the QRG's now....)
Not the situation on the TH79A I wand, I remount diode D306 to the location
of diode D307 to change to TH79E back. And now the work was finished:
  Transmitting as described above, no lock function activ, crossband repeater
  enabled. THE MENU-SETTING 18 are activ: "Answer back function" for the
  paging mode: transmitts an code back to show that the call received.
  But the continues TRX showing up later in this doc has not been verifyed.
The purpose of diode D302 was not to be able to find out because the first
diode I wand to unmount had been damaged ;-(

Here is the MARS/CAP modification
=================================
1. Remove battery.
2. Open case by first removing 3 screws (#00 Phillips) on back and 1 screw
    on side hidden underneath the rubber flap covering the DC power jack.
    Gently pry apart starting at top; BNC connector will move with back,
    knobs with front.
3. Spread unit out. Wires will "hinge" on the side with the PTT button.
4. Looking on the back of the keypad (front) half, locate green wire on

upper left, just below the CTCSS decoder module.
5. Neatly cut this green wire, and tuck back in so ends won't touch each
   other or other components.
6. Reassemble.
   Programmed memory will be lost since the CPU will notice the strap change
   and reset itself.

   Before: VHF RX - 118.000-173.995 TX - 144.000-147.995
           UHF RX - 438.000-449.995 TX - 438.000-449.995
   After: VHF RX - 118.000-173.995 TX - 142.000-151.995
           UHF RX - 420.000-449.995 TX - 420.000-449.995

If I read the schematic right, the green wire corresponds to "W301", which
also serves the same purpose as removing "D308". More research needs to be
done on other mods; I'm especially interested in extending UHF receive beyond
450. There is a row of diodes right below the uC which appear to be D302

Remote Base Operation with Kenwood 732/733
==
Kenwood has now simplified remote base operation of their mobile rigs
with the TH79.

I will not give a step by step on how to control the mobile rigs, since
they are different. Hoewever, to really understand this feature, I would
first get to know the remote control feature on the mobile very well. This
makes the following explanation a little clearer!

To access this feature, hold [PTT] and [MR] while [POWER ON].

The display will indicate -RC-, which I presume means 'Remote Control'.

If you have correctly matched your DTSS codes, frequencies, etc, the
dual bander's keypad now becomes a function pad. Pressing certain keys
enables or disables functions on the mobile rig by sending the DTMF
sequences for you.

Please note that all this fuction does is send the DTMF tones over the air
to control your mobile rig. I have not made a list of what each key does,
but as the 79 sends the DTMF tones, the display will indicate the function.
(i.e. - RPT ON, RPT OFF, TONE ON, TONE OFF, etc.)

"The "RC" function is configured to directly control radios such as
the TM-732. In fact, if you look at the layout of the microphone remote
commands for the 732 it very closely matches the key assignments for of
the "RC" mode. Since I have a TM-732 installed in my car, I had a chance
to try this out and it's VERY convenient. Everything from direct frequency
entry with the "F" key to enabling X-Band repeat. I'm really surprised
they aren't marketing this feature of the radio."

```
Measured specifictions of TH79
==============================


Band - VHF ----------------------------------------------------------
Frequency        Sens (uV)        Power          Mode
---------        ---------        -----          ----
108              4                -              A3
110              2                -              "
115              .75              -              "
120              .40              -              "
125              .30              -              "
130              .30              -              "
135              .30              -              "
140              .12              2.9            F3
145              .12              2.9            "
150              .13              2.8            "
155              .15              2.4            "
160              .18              1.9            "
165              .20              1.45           "
170              .21              1.10           "
175              .30              0.85           "
179.995          .35              0.70           "


Band - VHF (2) (set to 300Mhz) ----------------------------------
Frequency        Sens (uV)        Power          Mode
---------        ---------        -----          ----
300              50/75            -              A3/F3
320              4/20             -              "
340              .3/.6            -              "
360              .2/.5            -              "
380              .2/.6            -              "
400              .2/.75           -              "


Band - UHF ----------------------------------------------------------
Frequency        Sens (uV)        Power          Mode
---------        ---------        -----          ----
400              11               1.0            F3
410              4                1.5            "
420              1                1.85           "
430              .2               2.2            "
435              .12              2.3            "
440              .10              2.5            "
445              .10              2.5            "
450              .10              2.5            "
```

```
455             .15            2.3            "
460             .16            2.3            "
465             .20            2.0            "
470             .45            1.8            "
480            1               1.6            "
490            2               1.3            "
500            6               1.1            "
510            no RX over 509  0.8            "
```

   BTW, close inspection of the RF deck in my radio shows no obvious
missing parts. I didn't remove the board to check the other side, but
my suspicion is that the 800 MHz parts are installed. I'd be interested
in input from others on that. So far I've not discovered how to make it
display any 800 MHz frequencies though."

CONTINOUS TRX
=============
Pressing the VFO-key and the PTT key after a short beep and waiting a few
seconds with these two keys pressed will bring the th-79e into continous
transmit mode for about 10 minutes until TOT ends.
This will also work with the MR key.

end of the hidden functions


```
+-----------------------------------------------------------------------+
!Torsten Fechner  Studing-QTH: Erlangen,JN59MN      Home-QTH: Passau,JN68RO !
!Internet-email:        tnfechne@cip.informatik.uni-erlangen.de          !
!Amateur-Radio  AX25  :   DG7RO@DB0WGS.#BAY.DEU.EU                        !
!             tcpi/ip:  DG7RO@DG7RO.AMPR.ORG                       !
!             44.130.60.94                    44.130.59.94          !
+-----------------------------------------------------------------------+
```

Date: 4 Oct 94 07:45:15 GMT
From: knauer@intel.com (Rob Knauerhase)
Subject: Yaesu FT530 power plug

In <36hf55$q29@crl.crl.com> mgb@crl.com (Michael G. Beck) writes:
>Tim Shearer (Tim_Shearer@f110.n157.z1.gatenod.aldhfn.org) wrote:
>: Regarding the Yaesu FT-530 HT:
>: I have not been able to find a match to the coaxial power connector on
>: the top of this radio. My Radio Shack either doesn't stock it or was out
>: of stock. If anyone knows where this plug can be obtained at *reasonable*
>: cost please let me know
>You gotta get it from ***Yaesu***! I made the same search a few weeks ago

>and couldn't find it. I had the cigarette lighter adaptor so I got a

I was able to find it at the local Radio Shack, though the guy did have to
search for a while to find it. I already owned the lighter adapter with
several different tips (to use with other devices too), but none of them fit
the FT-530. However, they sell odd-sized tips separately. The one you want
is called "yellow tip"; the numbers on the card in the bag with it are
      270-1575
      2194-020
      2206-055

I suspect that the first one is the RS part number (though it's 0:50 PDT so
I can't call them to check). Price was $5.95, I think; pretty steep for an
adapter, but now I don't have to worry about having a dead battery when I'm
out crusing around.

Rob
--
Rob Knauerhase [knauer@ibeam.intel.com] Intel Mobile & Home Architecture Lab
  "Waldenbooks is selling bookmarks for $1.25. For that price, why not
   just use a dollar as a bookmark and save the quarter?" -- Anon.

Date: 4 Oct 1994 13:16:07 GMT
From: jbs@duke.edu (Joe B. Simpson)

References<Cwwvx7.Ar6@srgenprp.sr.hp.com> <1994Sep30.115359.4240@brtph560.bnr.ca>,
<781257070snz@g4kfk.demon.co.uk>
Subject: Re: Yaesu 5200- How do u like?

In article <781257070snz@g4kfk.demon.co.uk> Mike@g4kfk.demon.co.uk writes:
>Hi Bill.
>
>I have been using an FT-5200 with the remote head option for about a year
>now. I'm afraid I can't recommend them for the following reasons:

Though I had some gripes about my 5200, I have to respond to this:

>1/ I feel that I was totally misled about the function of the remote head.
>   Although the head can be easily detached from the head mount, the
>   transceiver needs to be unscrewed from the remote cable. Worse still,
>   the securing screws aren't 'captive' types, and are therefore easily
>   lost. Can anybody explain the sense in designing a transceiver with
>   a quick-release head, but no quick-release transceiver?

Sure. It's for security purposes. The body of the transceiver is expected
to be permamently mounted in the trunk or elsewhere out of sight; the head

pops off so people won't be tempted to steal it. I don't have mine remoted,
but I pop the head off a couple of times daily and stash it out of sight.

>3/ The transmitted audio of the FT-5200 is awful. I've taken the rig back
>   to the importers, but the best they could do was to crank up the peak
>   deviation to 8 KHz - any less and my dulcet tones weren't audible to
>   other mobiles above their own vehicle noise.

I've always gotten very *good* audio reports from other stations. Don't know
what else to tell you.

>4/ The receive performance, particularly on UHF, is atrocious. 70cm is
>   unusable in the centre of London due to breakthrough from other
>   services on UHF (taxis, couriers, broadcast links, etc...) Even
>   locally (a small village on the outskirts of Slough), 2m suffers
>   from breakthrough from a paging system.

I've never had any intermod or receive performance problems of any kind on
either band with my 5200, and I drive daily through areas that sent my
Alinco DJ-580 into an intermod frenzy before I sent it back to have it
desensitized.

  -joe
--
"When personal freedom's being abused, | "I have an open mind, about everything
    you have to move to limit it." | it needs to be open about."
                                        |
  - U.S. President Bill Clinton, 1994 | - George Greene   9/13/94

End of Info-Hams Digest V94 #1096
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